

## Certificate of Analysis

[www.tocris.com](http://www.tocris.com)

**Product Name:** Cell Counting Kit-8

**Catalog No.:** 7368

**Batch No.:** 9

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Physical Appearance:** Red liquid  
**Storage:** Store at +4°C

### 2. ANALYTICAL DATA

**Blank test (absorbance, 460nm):** 0.345 AU  
**Sensitivity (absorbance, 460nm):** 1.370 AU

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Product Name:** Cell Counting Kit-8**Catalog No.:** 7368**Batch No.:** 9**Description:**

Cell Counting Kit-8 is a viability and proliferation assay test solution. It is supplied as a ready-to-use 1-bottle solution (5 mL; 500 tests) and enables the colorimetric determination of the number of viable cells in cell proliferation and cytotoxicity assays. Cell Counting Kit-8 utilizes a highly water-soluble tetrazolium salt (WST-8), which is reduced by cellular dehydrogenases to an orange formazan dye. The color change can be detected in the 430 - 490 nm range and Cell Counting Kit-8 exhibits improved sensitivity compared with other tetrazolium salt-based assays such as MTT, XTT or MTS. Can also be used in the detection of superoxide.... Please see product specific page on [www.tocris.com](http://www.tocris.com) for full description.

**Physical and Chemical Properties:**

Physical Appearance: Red liquid

**Storage:** Store at +4°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Zhu et al** (2020) Comparison of three analytical methods for superoxide produced by activated immune cells. *J.Pharmacol.Toxicol.Methods* **101** 106637. PMID: 31678429.

**Tominaga et al** (1999) A water-soluble tetrazolium salt useful for colorimetric cell viability assay. *Anal.Commun.* **36** 47.

**Ishiyama et al** (1997) A highly water-soluble disulfonated tetrazolium salt as a chromogenic indicator for NADH as well as cell viability. *Talanta* **44** 1299. PMID: 18966866.

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